

STATYS Cabinet

Static Transfer System (STS): ensuring optimal redundancy for critical loads
from 200 to 1600 A (1800 A catcher)



GAMME_414_PSD

The solution for

- > Data centre
- > Healthcare
- > Infrastructure & Transport
- > Industry
- > Building

Strong points

- > Best resiliency for optimal power availability
- > Advanced Transformer Switching Management (ATSM)
- > Designed to fit your installation
- > 35 years of innovation driven by the field

Conformity to standards

- > IEC 62310 – 1
- > IEC 62310 – 2
- > IEC 60529
- > CE
- > UKCA

Expert services

We offer services to ensure your system highest availability:

- > Commissioning
- > On-site intervention
- > Maintenance packages with scheduled preventive visits
- > 24-hour call out and rapid on-site repairs
- > Warranty extensions
- > Training

Function

STATYS Cabinet is an intelligent static transfer system (STS) that provides increased supply availability, automatically transferring its loads to alternative power sources when the primary source falls out of set values.

STATYS Cabinet offers the highest protection against main power source outages, failure in the upstream power distribution system, malfunctions due to defective devices, or operator errors.

Advantages

Best resiliency for optimal power availability

STATYS Cabinet is designed to ensure the best power availability by eliminating all traditional single points of failure thanks to:

- Dual redundant electronic power supply (4x).
- Micro controller redundancy, including history log and settings, physically separated for additional safety.
- SCR driver integrates both independent and redundant power supplies, incorporating SCR fault sensing.
- An «auto-hold» function included to guarantee power continuity, even if an internal problem occurs.
- Cooling redundancy with fan failure monitoring.
- Segregation of main functions to prevent internal fault propagation.

Advanced Transformer Switching Management (ATSM)

ATSM is an embedded transfer method developed by Socomec to manage downstream magnetic loads such as transformers present in PDU.

This function protects current occurring after source transfer on a magnetic load.

By specifically managing, the phases sequence ATSM protects the installation from high transient overvoltages causing protection tripping linked to load transfer.

Designed to fit your installation

STATYS Cabinet offers the opportunity to implement a redundant architecture ensuring availability while providing more site flexibility:

- Compliant with all distribution architecture including Catcher.
- Available in 3 or 4-wire arrangement with or without neutral.
- Flexible digital control capacity that can adapt to any operational or electrical environment conditions.
- Capability to manage synchronised and non-synchronised sources according to load specificity, non-linear loads compatibility.

35 years of innovation driven by the field

A Firmware based on thousands of units installed and millions of operating hours to achieve the best level of availability:

- Source independence.
- Short circuit detection.
- ATSM integrated as a standard feature.
- Worldwide coverage of products and services.

STATYS Cabinet

Single-phase and three-phase STS
from 200 to 1600 A (1800 A catcher)

General characteristics

- A smart and flexible transfer system that can be configured according to the type of load.
- Synchronized and non-synchronized source compatibility (configurable synchronisation tolerance and switching management).
- ATSM.
- Output fault current sensing.
- Internal CAN Bus.
- Double maintenance bypass.
- Embedded Inputs, output and maintenance bypass switches.

Standard communication features

- LCD or user-friendly 7» touch-screen multilingual graphic colour display.
- Dry-contact interface (configurable voltage-free contacts).
- Free ComSlot available for communication option.
- Full digital configuration and setting.

Electrical options

- Available in fused or fusless version.
- 4W (3 Ph+N) or 3W (3 Ph).
- Advanced redundant design.

Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485.
- MODBUS TCP.
- REMOTE VIEW PRO supervision software.

Technical data

| STATYS Cabinet | | | | | | | | | | | |
|-------------------------------------|---|---------------------------------|-----|---------------------------------|-----|----------------------------------|------|-------------------|------|------|--|
| Rating (A) | 200 | 300 | 400 | 600 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | |
| ELECTRICAL CHARACTERISTICS | | | | | | | | | | | |
| Rated voltage | 208 - 220 / 380 - 415 / 440 V | | | | | | | | | | |
| Non-synchronized sources management | Configurable up to $\pm 180^\circ$ (No restriction) | | | | | | | | | | |
| Frequency | 50 Hz or 60 Hz (± 5 Hz configurable) | | | | | | | | | | |
| Number of phases | 3ph+N or 3ph (+ PE) | | | | | | | | | | |
| Number of poles switching | 3 or 4 poles | | | | | | | | | | |
| Maintenance bypass | Integrated | | | | | | | | | | |
| Overload | 150 % for 2 minutes - 110 % for 60 minutes ⁽¹⁾ | | | | | | | | | | |
| Efficiency | 99% | | | | | | | | | | |
| Admissible power factor | No restrictions | | | | | | | | | | |
| ENVIRONMENT | | | | | | | | | | | |
| Operating ambient temperature | From 0°C to 40°C | | | | | | | | | | |
| Relative humidity | 95% non-condensing | | | | | | | | | | |
| Maximum altitude | 1000 m (3300 ft) without downgrading | | | | | | | | | | |
| Acoustic level at 1 m (ISO 3746) | ≤ 60 dBA | | | | | | | ≤ 84 dBA | | | |
| STANDARDS | | | | | | | | | | | |
| Safety | IEC 62310, IEC 60529 | | | | | | | | | | |
| EMC | Classe C2 (IEC 62310-2) | | | | | | | | | | |
| Product declaration | CE, RCM (E2376), UKCA | | | | | | | | | | |
| Degrees of protection | IP20 | | | | | | | | | | |
| DIMENSIONS | | | | | | | | | | | |
| Rating (A) | 200 | 300 | 400 | 600 | 630 | 800 | 1000 | 1250 | 1400 | 1600 | |
| WxDxH (mm) | 500 x 600 ⁽²⁾ x 1930 | 700 x 600 ⁽²⁾ x 1930 | | 900 x 600 ⁽²⁾ x 1930 | | 1400 x 950 ⁽²⁾ x 1930 | | 2010 x 815 x 1955 | | | |
| Weight (kg) | 195 | 270 | | 345 | | 685 | | 1200 | | | |

(1) For 630 A only: 150% for 1 minute - 105% for 60 minutes.

(2) Depth does not include handles (+40 mm).